II. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A telecommunication
architecture comprising:

a network for carrying <u>subscribers'</u> communications between subscribers terminals;

at least one terminal agent a plurality of terminal agents executing on said network—that interfaces said network with a terminal, such that for each terminal there is a single uniquely associated terminal agent for managing communications with that terminal according to that terminal's capabilities; and

at least one subscriber agent a plurality of subscriber agents executing on said network that belongs to one of said subscribers, such that for each subscriber there is at least one uniquely associated subscriber agent, each said subscriber agent having a terminal identifier for pointing said subscriber agent to one of said terminal agents being configurable to point to at least one of said terminal agents, such that said one of said subscribers a subscriber can establish a communication over said network from a terminal respective to said one of said terminal

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agents associated with a terminal agent pointed to by that subscriber's subscriber agent.

2. (Currently Amended) A switch for interconnecting a network and a plurality of terminals, the switch comprising:

at least one subscriber line interface a plurality of subscriber line interfaces for connection to a respective terminal the terminals;

a network interface for connection to $\frac{1}{2}$ network; and

a processing unit controller interconnecting said subscriber line interface interfaces and said network, said processing unit controller being operable to execute a subscriber agent associated with a subscriber and a terminal agent respective to each terminal; a plurality of terminal agents and a plurality of subscriber agents, said subscriber agent for identifying said subscriber to said network and being configurable to point to said terminal agent in order to carry communication between said network and said terminal agent; and, such that for each subscriber there is at least one uniquely associated subscriber agent, each said subscriber agent being configurable to point to at least one of said terminal agents said terminal agent for managing, via said subscriber line interface, communications between said terminal and said processing unit according to said terminal's capabilities such

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that for each terminal connected to a subscriber line interface

there is a single uniquely associated terminal agent for managing

communications with that terminal according to that terminal's

capabilities and

such that a subscriber using said terminal can conduct a communication over said network. so that said switch may interconnect a network connected to said network interface with a terminal connected to one of said subscriber line interfaces so as to allow a subscriber whose subscriber agent points to the terminal agent associated with that terminal to conduct a communication over the network from that terminal.

- (Currently Amended) The switch according to claim
 wherein said terminal is terminals include a telephone.
- 4. (Currently Amended) The switch according to claim 2 wherein said terminal is terminals include is a rich-featured telephone having a graphical display.
- 5. (Currently Amended) The switch according to claim 2 wherein said terminal is terminals include is a wireless telephone and said switch is a wireless base station.
- 6. (Currently Amended) The switch according to claim 2 wherein said terminal is terminals include is a pager.

- 7. (Currently Amended) The switch according to claim 2 wherein said terminal is terminals include is a personal digital assistant.
- 8. (Currently Amended) The switch according to claim 2 wherein said terminal is terminals include is a voicemail server.
- 9. (Currently Amended) The switch according to claim 2 wherein said terminal is terminals include is a point-of-purchase terminal.
- 10. (Currently Amended) The switch according to claim 2 wherein said network $\frac{1}{10}$ comprises the PSTN.
- 11. (Currently Amended) The switch according to claim 2 wherein said network is comprises the Internet.
- 12. (Currently Amended) The switch according to claim 2 wherein <u>each</u> said subscriber agent includes said <u>associated</u> subscriber's name.

- 13. (Currently Amended) The switch according to claim 2 wherein <u>each</u> said subscriber agent includes a set of calling features belonging to said associated subscriber.
- 14. (Currently Amended) The switch according to claim
 13 wherein said calling features are accessible by said
 subscriber at any terminal to which said <u>associated</u> subscriber
 agent points.
- 15. (Original) The switch according to claim 13 wherein said calling features include at least one of caller-id, call waiting, speed calling, call privacy, visual call waiting, and call privacy.
- 16. (Currently Amended) The switch according to claim 13 wherein said calling features <u>includes</u> <u>include</u> call forwarding that , which is implemented by configuring said subscriber agent to point to a desired terminal agent.
- 17. (Currently Amended) A software structure executable on a switch having a processing unit that interconnects for interconnecting a network and at least one terminal a plurality of terminals, comprising:

at least one terminal agent a plurality of terminal agents, such that for each terminal there is a single uniquely

associated terminal agent that manages for managing communications with a respective one of said terminals that terminal according to its capabilities; and,

plurality of subscriber agents, such that for each subscriber there is at least one uniquely associated subscriber agent, each said subscriber agent being configurable to point to at least one of said terminal agents and operable, when executing on said switch, so that said a subscriber can establish a communication over said network from a terminal respective to associated with said terminal agent pointed to by that subscriber's subscriber agent.

- 18. (Currently Amended) The software structure according to claim 17 wherein said terminal is terminals include a telephone and wherein said communication is a voice telephone call.
- 19. (Currently Amended) The software structure according to claim 17 wherein said terminal is terminals include a personal computer.
- 20. (Currently Amended) The software structure according to claim 17 wherein said terminal is terminals include a wireless telephone and said switch is a wireless base station.

- 21. (Currently Amended) The software structure according to claim 17 wherein said terminal is terminals include a pager and wherein said communication includes a paging message.
- 22. (Currently Amended) The software structure according to claim 17 wherein said terminal is terminals include a personal digital assistant.
- 23. (Currently Amended) The software structure according to claim 17 wherein said terminal is terminals include a voicemail server.
- 24. (Currently Amended) The software structure according to claim 17 wherein said terminal is terminals include a point-of-purchase terminal and wherein said communication includes a purchase authorization.
- 25. (Currently Amended) The software structure according to claim 17 wherein said network is includes the PSTN and said switch includes a PSTN gateway.
- 26. (Currently Amended) The software structure according to claim 17 wherein said network is includes the Internet.

- 27. (Currently Amended) The software structure according to claim 17 wherein <u>each</u> said subscriber agent includes said associated subscriber's name.
- 28. (Currently Amended) The software structure according to claim 17 wherein <u>each</u> said subscriber agent includes a set of calling features belonging to said <u>associated</u> subscriber.
- 29. (Currently Amended) The software structure according to claim 28 wherein said calling features are accessible by said subscriber at any terminal capable of supporting said features and to which said associated subscriber agent points.
- 30. (Original) The software structure according to claim 28 wherein said calling features include at least one of caller-id, call waiting, speed calling, call privacy, visual call waiting, and call privacy.
- 31. (Currently Amended) The software structure according to claim 28 wherein said calling features includes include call forwarding that , which is implemented by pointing said subscriber agent to a desired terminal agent.

32. (Currently Amended) A method for setting up an incoming call to a subscriber comprising the steps of:

receiving a request to establish said call with said subscriber;

obtaining a profile of said subscriber;

selecting a terminal appropriate to said call according to criteria stored in said profile; and,

selecting a terminal agent uniquely associated with a single terminal for managing communications according to said terminal's capabilities and pointed to by a subscriber agent uniquely associated with said subscriber, such selection based upon behaviour criteria with which said subscriber agent is programmed; and

connecting said call to said terminal <u>associated with</u> said selected terminal agent.

33. (Currently Amended) A method of associating a subscriber with a terminal comprising the steps of:

receiving a request from a subscriber to be associated with a terminal;

obtaining a profile of a subscriber who submitted said
request; and,

determining, from an identification of the subscriber and from a single terminal agent uniquely associated with the

terminal, any restrictions on the use of the terminal by the identified subscriber; and

updating said profile to indicate that calls for said subscriber are to be directed to said terminal.

if the restrictions permit use of the terminal by the subscriber,
then modifying a subscriber agent uniquely associated with the
identified subscriber so that it points to the terminal agent.

34. (Currently Amended) The method according to claim 32 further comprising the step of:

providing calling features for said subscriber at said terminal in accordance with calling features listed in said profile associated subscriber agent.

35. (Currently Amended) A method for setting up an outgoing call from by a subscriber from a terminal comprising the steps of:

receiving a request to establish a <u>said</u> call from a said terminal;

obtaining a profile of a subscriber who submitted said request; and

identifying the call as being made through a terminal agent that is a single terminal agent uniquely associated with 3 said terminal for managing communications according to that

terminal's capabilities and that is pointed by a subscriber agent uniquely associated with said subscriber; and

connecting said call <u>so as to provide calling features</u>

<u>for the subscriber at the terminal</u> in accordance with <u>criteria</u>

<u>listed in said profile subscriber's calling features included in said subscriber agent that are available at said terminal.</u>

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Claims 36-38 (Cancelled).

- 39. (Currently Amended) The method according to any of claim 32 wherein said terminal is terminals include a telephone.
- 40. (Currently Amended) The method according to any of chaim 32 wherein said terminal is terminals include a personal computer.
- 41. (Currently Amended) The method according to any of claim 32 wherein said terminal is terminals include a wireless telephone.
- 42. (Currently Amended) The method according to any of claim 32 wherein said terminal is terminals include a pager.

- 43. (Currently Amended) The method according to any of claim 32 wherein said terminal is terminals include a personal digital assistant.
- 44. (Currently Amended) The method according to any of claim 32 wherein said terminal is terminals include a voicemail server.
- 45. (Currently Amended) The method according to any of claim 35 wherein said terminal is a point-of-purchase terminal and wherein said communication includes a purchase authorization.
- 46. (Currently Amended) The method according to any of claim 32 wherein said each subscriber agent includes said associated subscriber's name.
- 47. (Original) The method according to claim 34 wherein said calling features include at least one of caller-id, call waiting, speed calling, call privacy, visual call waiting, and call privacy.
- 48. (Currently Amended) The method according to claim 34 wherein said calling features <u>includes</u> <u>include</u> call forwarding.

- 49. (Currently Amended) The architecture according to claim 1, wherein said subscriber is subscribers include an individual.
- 50. (Currently Amended) The architecture according to claim 1, wherein said subscriber subscribers include a subscriber which represents a group of persons.
- 51. (Currently Amended) The architecture according to claim 50, wherein said group is includes corporation.
- 52. (Currently Amended) The architecture according to claim 50, wherein said group $\frac{1}{100}$ includes a technical assistance center.

Claim 53 (Cancelled).

- 54. (Currently Amended) The method according to claim 32 wherein said subscriber subscribers include a subscriber which represents a group of persons.
- 55. (Currently Amended) The method architecture according to claim 50 wherein said group is includes a collection of network operators.

56. (Currently Amended) The method architecture according to claim 50 wherein said group is includes a '911' call center.

Claims 57-58 (Cancelled).

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- 59. (Currently Amended) The architecture according to claim 1, wherein said subscriber agent is identifiable by said associated subscriber's telephone number.
- 60. (Original) The method according to claim 32 wherein said step of receiving request to establish said call includes the step of providing said subscriber's telephone number.